Docket No.: M4065.0105/P105-C

Application No. 10/825,372

Request dated: March 15, 2007

After Final Office Action of January 29, 2007

## LISTING OF THE CLAIMS

aims 1-199 (Canceled).

200. (Previously presented) A method of forming a photosensor comprising:

excavating a trench within a semiconductor substrate of a first conductivity type, said trench having a substantially vertical internal surface region and bottom surface region;

performing a first ion implantation of a second conductivity type into said substantially vertical internal surface region and bottom surface region at a first ion implantation angle; and

performing a second ion implantation of said second conductivity type into said substantially vertical internal surface region and bottom surface region at a second ion implantation angle, wherein said first implantation angle is orthogonal to said second ion implantation angle.

- 201. (Canceled).
- 202. (Previously presented) A method of forming a photosensor as defined in claim 200 further-comprising performing a plurality of ion implantations at a respective plurality of ion implantation angles.
- 203. (Previously presented) A method of forming a photosensor as defined in claim 200 further comprising applying a passivation layer above said substantially vertical internal surface region.

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- 204. (Original) A method of forming a photosensor as defined in claim 203 wherein said passivation layer comprises silicon dioxide.
- 205. (Original) A method of forming a photosensor as defined in claim 203 wherein said passivation layer comprises Borosilicate glass.
- 206. (Original) A method of forming a photosensor as defined in claim 203 wherein said passivation layer comprises phospho-silicate glass.
- 207. (Original) A method of forming a photosensor as defined in claim 203 wherein said passivation layer comprises boron-phospho-silicate glass.
- 208. (Original) A method of forming a photosensor as defined in claim 203 further comprising chemical mechanical planarizing said passivation layer.
- 209. (Previously presented) A method of forming a photosensor as defined in claim 200, wherein said step of excavating a trench further comprises anisotropically etching said semiconductor substrate.
- 210. (Previously presented) A method of forming a photosensor as defined in claim 200 further comprising forming an insulating layer that covers the vertical internal surface region and bottom surface region of said trench.
- 211. (Previously presented) A method of forming a photosensor as defined in claim 210 further comprising forming a conductive layer that covers a substantial portion of said insulating layer.

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212. (Previously presented) A method of forming a photosensor as defined in claim 200, wherein the first conductivity type is p-type, and the second conductivity is n-type.